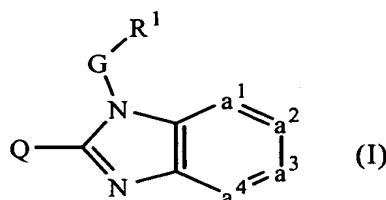


This listing of claims will replace all prior versions, and listings, of claims in the application.

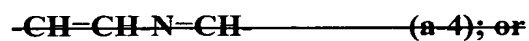
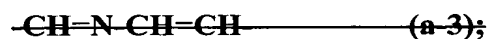
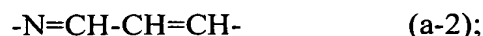
**Listing of Claims:**

1. (*currently amended*) A compound of formula

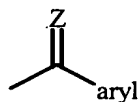


~~a-prodrug~~, an addition salt, or stereochemically isomeric form thereof wherein

$-a^1=a^2-a^3=a^4-$  represents a bivalent radical of formula

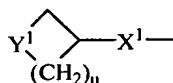


wherein each hydrogen atom in the ~~radicals~~ radical (a-2), ~~(a-3)~~, ~~(a-4)~~ and ~~(a-5)~~ may optionally be replaced by halo, C<sub>1-6</sub>alkyl, nitro, amino, hydroxy, C<sub>1-6</sub>alkyloxy, polyhaloC<sub>1-6</sub>alkyl, carboxyl, aminoC<sub>1-6</sub>alkyl, mono- or di(C<sub>1-4</sub>alkyl)aminoC<sub>1-6</sub>alkyl, C<sub>1-6</sub>alkyloxycarbonyl, hydroxyC<sub>1-6</sub>alkyl, or a radical of formula

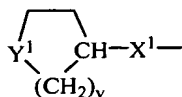


wherein Z is O, CH-C(=O)-NR<sup>5a</sup>R<sup>5b</sup>, CH<sub>2</sub>, CH-C<sub>1-6</sub>alkyl, N-OH or N-O-C<sub>1-6</sub>alkyl;

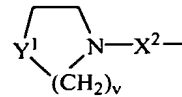
Q is a radical of formula



(b-4)



(b-5)



(b-6)

wherein

$Y^1$  is a bivalent radical of formula  $-NR^2-$  or  $-CH(NR^2R^4)-$ ;

$X^1$  is  $NR^4$ , S,  $S(=O)$ ,  $S(=O)_2$ , O,  $CH_2$ ,  $C(=O)$ ,  $C(=CH_2)$ ,  $CH(OH)$ ,  $CH(CH_3)$ ,  $CH(OCH_3)$ ,  $CH(SCH_3)$ ,  $CH(NR^{5a}R^{5b})$ ,  $CH_2-NR^4$  or  $NR^4-CH_2$ ;

$X^2$  is a direct bond,  $CH_2$ ,  $C(=O)$ ,  $NR^4$ ,  $C_{1-4}alkyl-NR^4$ ,  $NR^4-C_{1-4}alkyl$ ;

u is 2 or 3;

v is 2; and

whereby each hydrogen atom in the carbocycles and the heterocycles defined in radicals (b-4), (b-5), and (b-6) may optionally be replaced by  $R^3$ ; with the proviso that when  $R^3$  is hydroxy or  $C_{1-6}alkyloxy$ , then  $R^3$  can not replace a hydrogen atom in the  $\alpha$  position relative to a nitrogen atom;

G is  $C_{1-10}alkanediyl$  substituted with one or more hydroxy,  $C_{1-6}alkyloxy$ ,  $arylC_{1-6}alkyloxy$ ,  $C_{1-6}alkylthio$ ,  $arylC_{1-6}alkylthio$ ,  $HO(-CH_2-CH_2-O)_n$ ,  $C_{1-6}alkyloxy(-CH_2-CH_2-O)_n$  or  $arylC_{1-6}alkyloxy(-CH_2-CH_2-O)_n$ ;

$R^1$  is a monocyclic heterocycle or aryl; said heterocycle being selected from piperidinyl, piperazinyl, pyridyl, pyrazinyl, pyridazinyl, pyrimidinyl, furanyl, tetrahydrofuranyl, thienyl, pyrrolyl, thiazolyl, oxazolyl, imidazolyl, isothiazolyl, pyrazolyl, isoxazolyl, oxadiazolyl; and each heterocycle may optionally be substituted with 1 or where possible more substituents selected from halo, hydroxy, amino, cyano, carboxy,  $C_{1-6}alkyl$ ,  $C_{1-6}alkyloxy$ ,  $C_{1-6}alkylthio$ ,  $C_{1-6}alkyloxyC_{1-6}alkyl$ , aryl,  $arylC_{1-6}alkyl$ ,  $arylC_{1-6}alkyloxy$ ,  $hydroxyC_{1-6}alkyl$ , mono- or di( $C_{1-6}alkyl$ )amino, mono- or di( $C_{1-6}alkyl$ )amino $C_{1-6}alkyl$ , polyhalo $C_{1-6}alkyl$ ,  $C_{1-6}alkylcarbonylamino$ ,  $C_{1-6}alkyl-SO_2-NR^{5c}$ ,  $aryl-SO_2-NR^{5c}$ ,  $C_{1-6}alkyloxycarbonyl$ ,  $-C(=O)-NR^{5c}R^{5d}$ ,  $HO(-CH_2-CH_2-O)_n$ , halo( $-CH_2-CH_2-O)_n$ ,  $C_{1-6}alkyloxy(-CH_2-CH_2-O)_n$ ,  $arylC_{1-6}alkyloxy(-CH_2-CH_2-O)_n$  and mono- or di( $C_{1-6}alkyl$ )amino( $-CH_2-CH_2-O)_n$ ;

each n independently is 1, 2, 3 or 4;

$R^2$  is hydrogen, formyl,  $C_{1-6}alkylcarbonyl$ , Hetcarbonyl, pyrrolidinyl, piperidinyl, homopiperidinyl,  $C_{3-7}cycloalkyl$  substituted with  $N(R^6)_2$ , or  $C_{1-10}alkyl$  substituted with  $N(R^6)_2$  and optionally with a second, third or fourth substituent

selected from amino, hydroxy, C<sub>3-7</sub>cycloalkyl, C<sub>2-5</sub>alkanediyl, piperidinyl, mono-or di(C<sub>1-6</sub>alkyl)amino, C<sub>1-6</sub>alkyloxycarbonylamino, aryl and aryloxy;

R<sup>3</sup> is hydrogen, hydroxy, C<sub>1-6</sub>alkyl, C<sub>1-6</sub>alkyloxy, arylC<sub>1-6</sub>alkyl or arylC<sub>1-6</sub>alkyloxy;

R<sup>4</sup> is hydrogen, C<sub>1-6</sub>alkyl or arylC<sub>1-6</sub>alkyl;

R<sup>5a</sup>, R<sup>5b</sup>, R<sup>5c</sup> and R<sup>5d</sup> each independently are hydrogen or C<sub>1-6</sub>alkyl; or

R<sup>5a</sup> and R<sup>5b</sup>, or R<sup>5c</sup> and R<sup>5d</sup> taken together form a bivalent radical of formula -(CH<sub>2</sub>)<sub>s</sub>- wherein s is 4 or 5;

R<sup>6</sup> is hydrogen, C<sub>1-4</sub>alkyl, formyl, hydroxyC<sub>1-6</sub>alkyl, C<sub>1-6</sub>alkylcarbonyl or C<sub>1-6</sub>alkyloxycarbonyl;

aryl is phenyl or phenyl substituted with 1 or more-substituents selected from halo, hydroxy, C<sub>1-6</sub>alkyl, hydroxyC<sub>1-6</sub>alkyl, polyhaloC<sub>1-6</sub>alkyl, and C<sub>1-6</sub>alkyloxy; and

Het is pyridyl, pyrimidinyl, pyrazinyl, or pyridazinyl.

2. *(cancelled)*

3. *(previously presented)* A compound according to claim 1, wherein R<sup>1</sup> is phenyl optionally substituted with halo, C<sub>1-6</sub>alkyl or C<sub>1-4</sub>alkyloxy; or pyridyl optionally substituted with 1 or more substituents selected from arylC<sub>1-6</sub>alkyloxy, C<sub>1-6</sub>alkyloxyC<sub>1-6</sub>alkyl, aryl, mono-or di(C<sub>1-6</sub>alkyl)amino, C(=O)-NR<sup>5c</sup>R<sup>5d</sup>, halo or C<sub>1-6</sub>alkyl.

4. *(previously presented)* A compound according to claim 1, wherein G is C<sub>1-4</sub>alkanediyl substituted with hydroxy, C<sub>1-6</sub>alkyloxy, HO(-CH<sub>2</sub>-CH<sub>2</sub>-O)<sub>n</sub>-, C<sub>1-6</sub>alkyloxy(-CH<sub>2</sub>-CH<sub>2</sub>-O)<sub>n</sub>- or arylC<sub>1-6</sub>alkyloxy(-CH<sub>2</sub>-CH<sub>2</sub>-O)<sub>n</sub>-.

5. *(previously presented)* A compound according to claim 1, wherein Q is a radical of formula (b-5) wherein v is 2 and Y<sup>1</sup> is -NR<sup>2</sup>-.

6. *(previously presented)* A compound according to claim 1, wherein X<sup>1</sup> is NH or CH<sub>2</sub>.

**DOCKET NO.:** JANS-0042 (JAB-1499 US DIV)

**PATENT**

**Application No.:** 10/817,472

**Office Action Dated:** January 17, 2006

7. *(previously presented)* A compound according to claim 1, wherein  $R^2$  is hydrogen or  $C_{1-10}$ alkyl substituted with  $NHR^6$  wherein  $R^6$  is hydrogen or  $C_{1-6}$ alkyloxycarbonyl.

8. *(cancelled)*

9. *(currently amended)* A method of treating a respiratory syncytial viral infection, comprising the step of administering a therapeutically effective amount of a compound as claimed in any one of claims 1, 3 to 7.

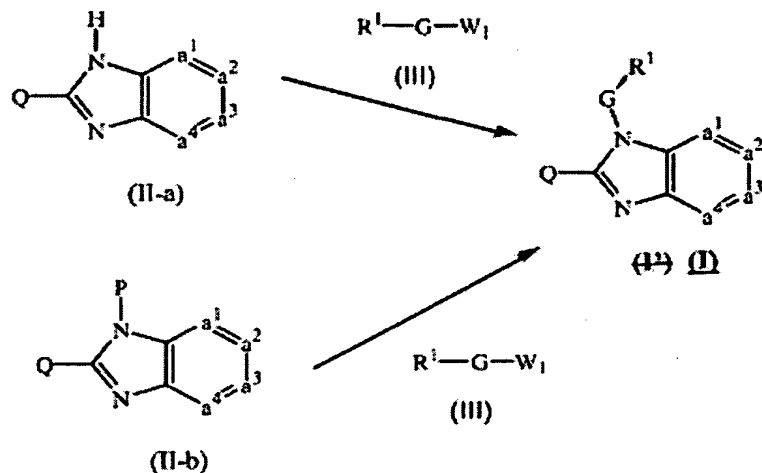
10. *(currently amended)* A pharmaceutical composition, comprising a pharmaceutically acceptable carrier, and as active ingredient a therapeutically effective amount of a compound as claimed in any one of claims 1, 3 to 7.

11. *(previously presented)* A process of preparing a composition as claimed in claim 10, comprising the step of intimately mixing said carrier with said compound.

Claims 12 to 14 *(cancelled)*

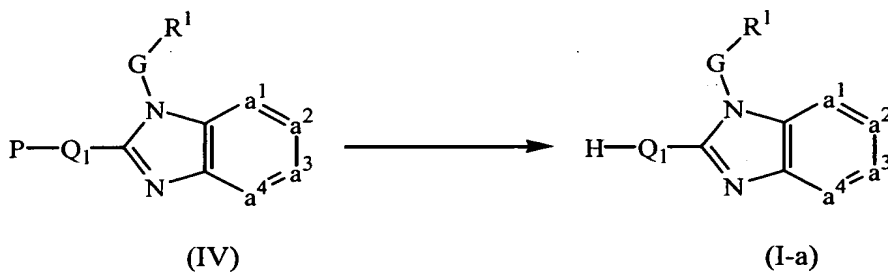
15. *(currently amended)* A process of preparing a compound as claimed in claim 1, comprising at least one step selected from the group consisting of:

- a) reacting an intermediate of formula (II-a) or (II-b) with an intermediate of formula (III)



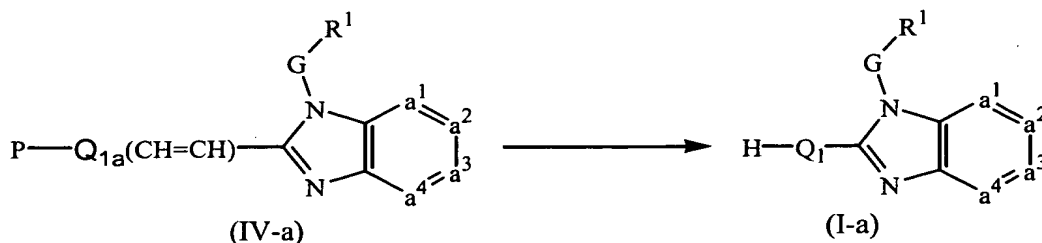
with  $R^1$ , G, Q and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $W_1$  being a leaving group, in the presence of a base and in a reaction-inert solvent;

- b) deprotecting an intermediate of formula (IV)



with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1,  $H-Q_1$  being defined as Q according to claim 1 provided that  $R^2$  or at least one  $R^6$  substituent is hydrogen, and P being a protective group;

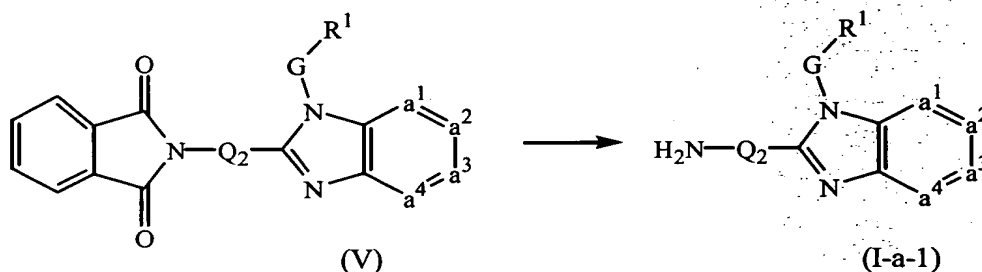
- c) deprotecting and reducing an intermediate of formula (IV-a)



with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1,  $H-Q_1$  being defined as Q according to claim 1 provided that  $R^2$  or at least one  $R^6$  substituent is

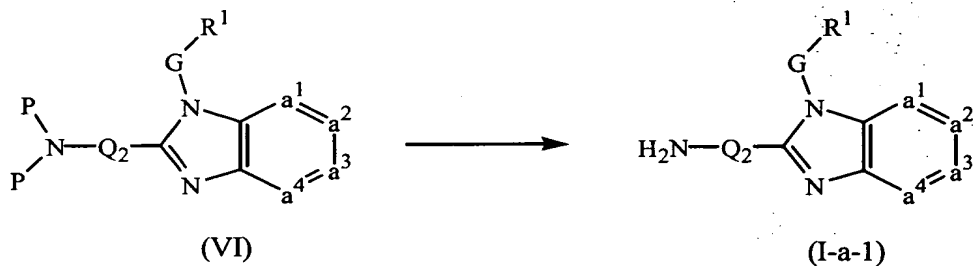
hydrogen,  $Q_{1a}(\text{CH}=\text{CH})$  being defined as  $Q_1$  provided that  $Q_1$  comprises an unsaturated bond, and P being a protective group;

- d) deprotecting an intermediate of formula (V)



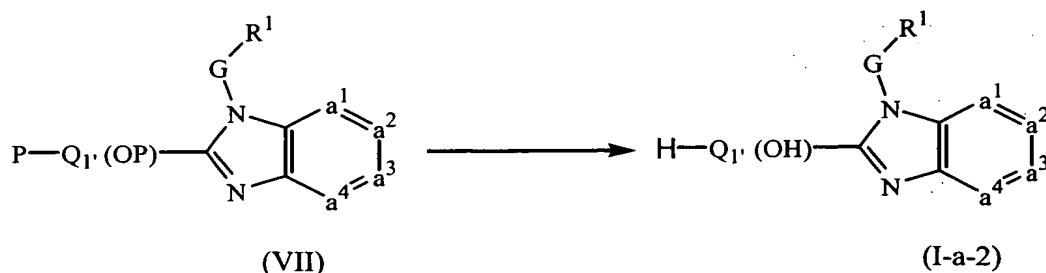
with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $\text{H}_2\text{N}-Q_2$  being defined as Q according to claim 1 provided that both  $R^6$  substituents are hydrogen or  $R^2$  and  $R^4$  are both hydrogen;

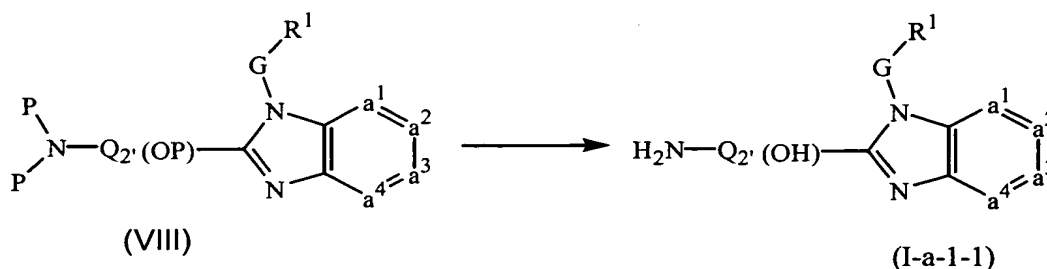
- e) deprotecting an intermediate of formula (VI)



with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $\text{H}_2\text{N}-Q_2$  being defined as Q according to claim 1 provided that both  $R^6$  substituents are hydrogen or  $R^2$  and  $R^4$  are both hydrogen, and P being a protective group;

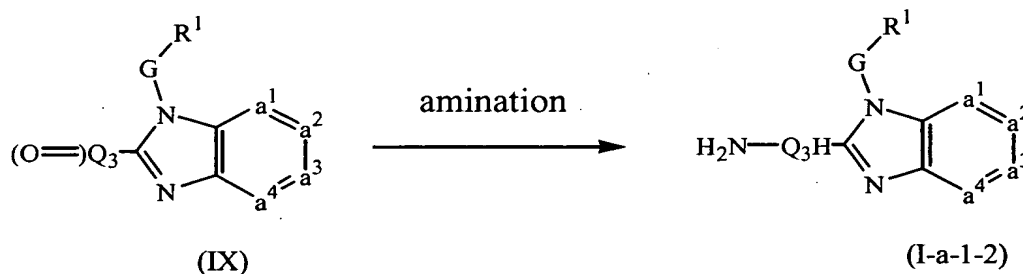
- f) deprotecting an intermediate of formula (VII) or (VIII)





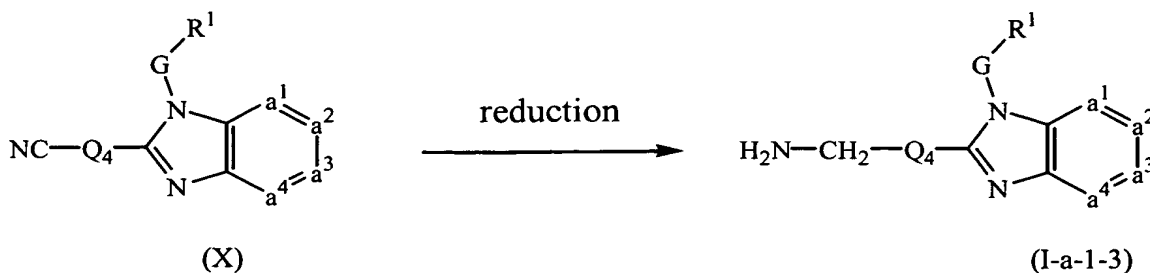
with  $R^1$ ,  $G$ , and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1,  $H-Q_1'(OH)$  being defined as  $Q$  according to claim 1 provided that  $R^2$  or at least one  $R^6$  substituent is hydrogen and provided that  $Q$  comprises a hydroxy moiety,  $H_2N-Q_2'(OH)$  being defined as  $Q$  according to claim 1 provided that both  $R^6$  substituents are hydrogen or  $R^2$  and  $R^4$  are both hydrogen and provided that  $Q$  comprises a hydroxy moiety, and  $P$  being a protective group;

g) amination of an intermediate of formula (IX)



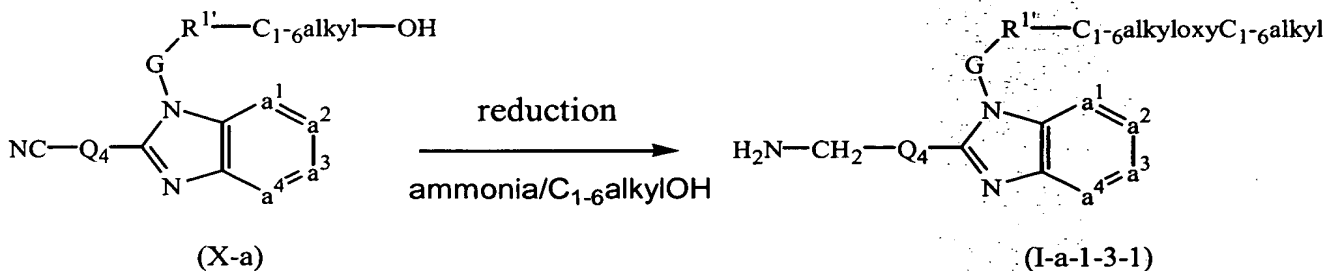
with  $R^1$ ,  $G$ , and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H_2N-Q_3H$  being defined as  $Q$  according to claim 1 provided that both  $R^6$  substituents are hydrogen or  $R^2$  and  $R^4$  are both hydrogen, and the carbon adjacent to the nitrogen carrying the  $R^6$ , or  $R^2$  and  $R^4$  substituents contains at least one hydrogen, in the presence of an amination reagent;

h) reducing an intermediate of formula (X)



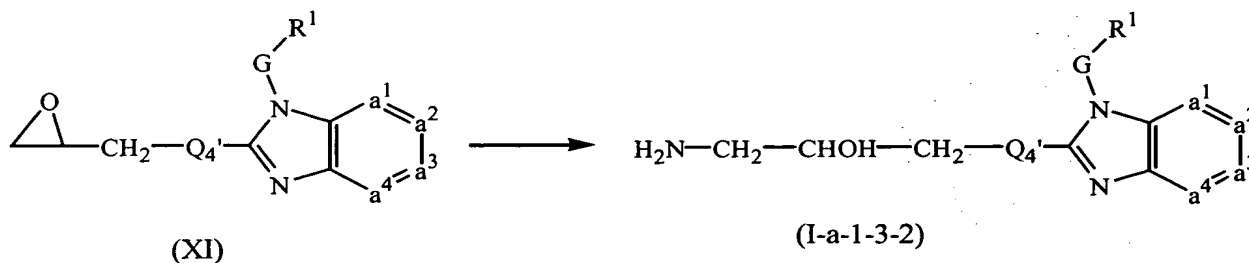
with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H_2N-CH_2-Q_4$  being defined as Q according to claim 1 provided that Q comprises a  $-CH_2-NH_2$  moiety, in the presence of a reducing agent;

- i) reducing an intermediate of formula (X-a)



with G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1,  $H_2N-CH_2-Q_4$  being defined as Q according to claim 1 provided that Q comprises a  $-CH_2-NH_2$  moiety, and  $R^1$  being defined as  $R^1$  according to claim 1 provided that it comprises at least one substituent, in the presence of a reducing agent and solvent;

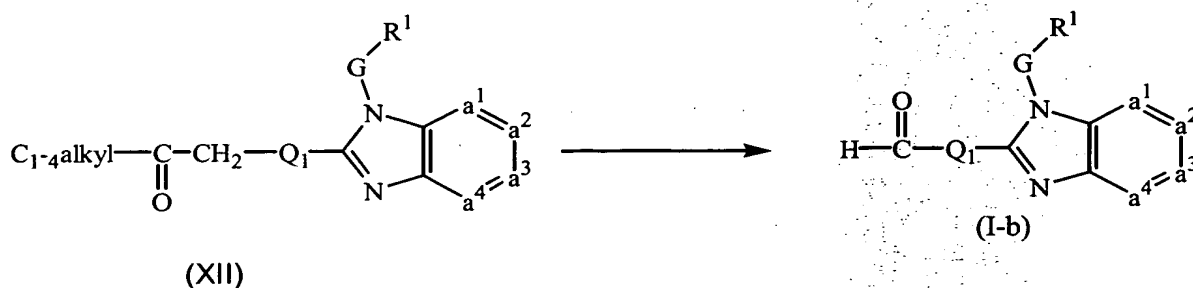
- j) amination of an intermediate of formula (XI)



with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H_2N-CH_2-CHOH-CH_2-Q_4'$  being defined as Q according to claim 1 provided that Q comprises a  $CH_2-CHOH-CH_2-NH_2$  moiety, in the presence of an amination reagent;

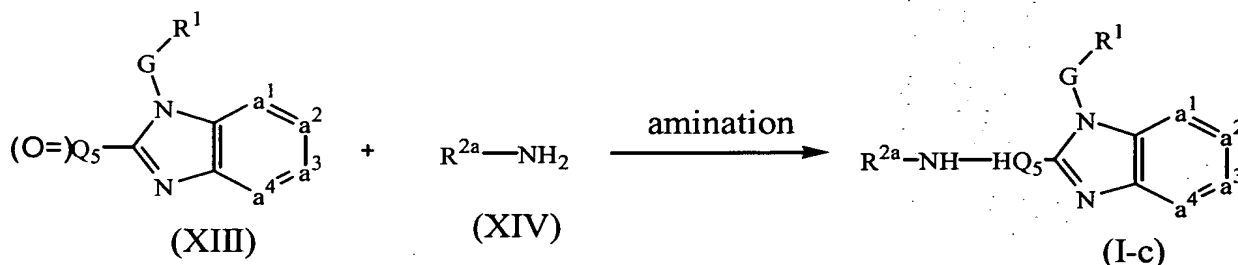
- k) reacting an intermediate of formula (XII) with formic acid, formamide and ammonia





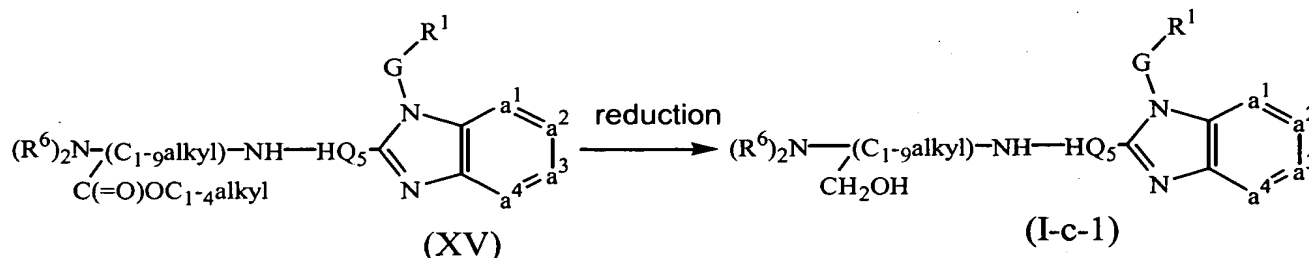
with  $R^1$ ,  $G$ , and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H-C(=O)-Q_1$  being defined as  $Q$  according to claim 1 provided that  $R^2$  or at least one  $R^6$  substituent is formyl;

- l) amination of an intermediate of formula (XIII) by reaction with an intermediate of formula (XIV)



with  $R^1$ ,  $G$ , and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $R^{2a}-NH-HQ_5$  being defined as  $Q$  according to claim 1 provided that  $R^2$  is other than hydrogen and is represented by  $R^{2a}$ ,  $R^4$  is hydrogen, and the carbon atom adjacent to the nitrogen atom carrying the  $R^2$  and  $R^4$  substituents, carries also at least one hydrogen atom, in the presence of a reducing agent;

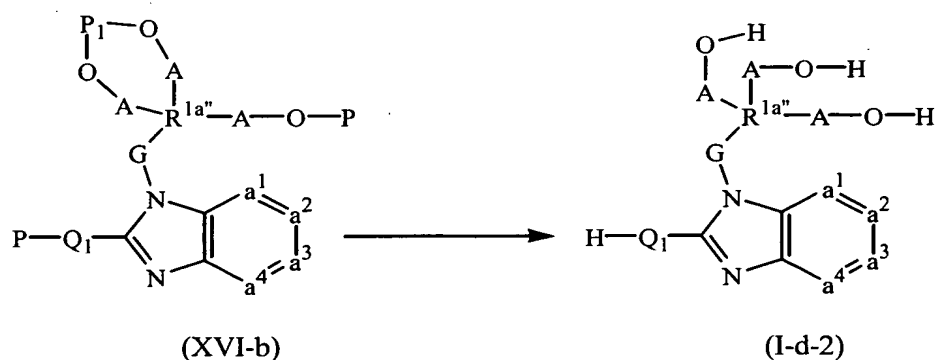
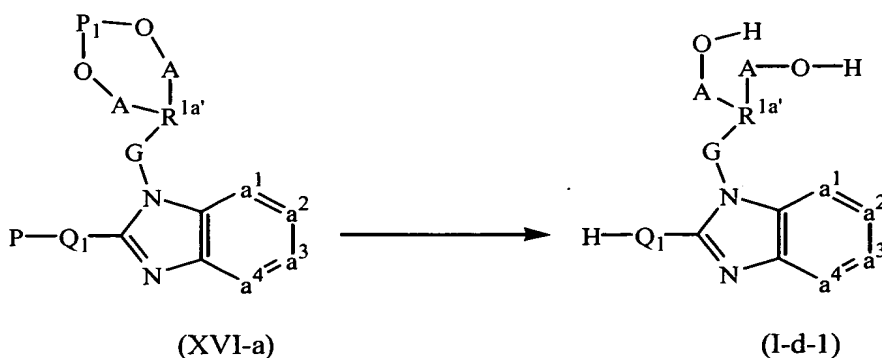
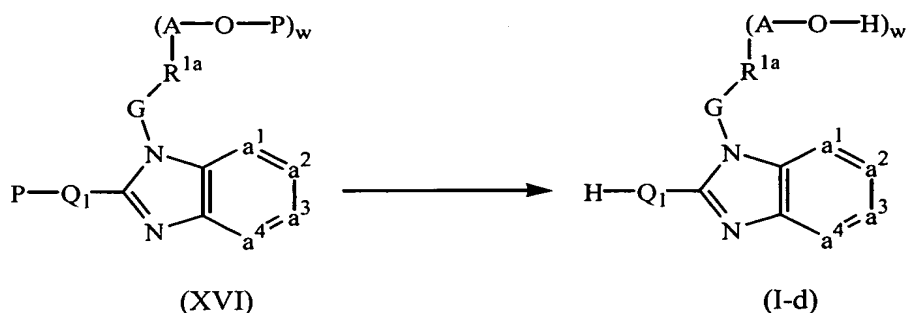
- m) reducing an intermediate of formula (XV)



with  $R^1$ ,  $G$ , and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $(R^6)_2N-[(C_{1-9}alkyl)CH_2OH]-NH-HQ_5$  being defined as  $Q$  according to claim 1 provided

that  $R^2$  is other than hydrogen and is represented by  $C_{1-10}$ alkyl substituted with  $N(R_6)_2$  and with hydroxy, and the carbon atom carrying the hydroxy, carries also two hydrogen atoms, and provided that  $R^4$  is hydrogen, and the carbon atom adjacent to the nitrogen atom carrying the  $R^2$  and  $R^4$  substituents, carries also at least one hydrogen atom, with a reducing agent;

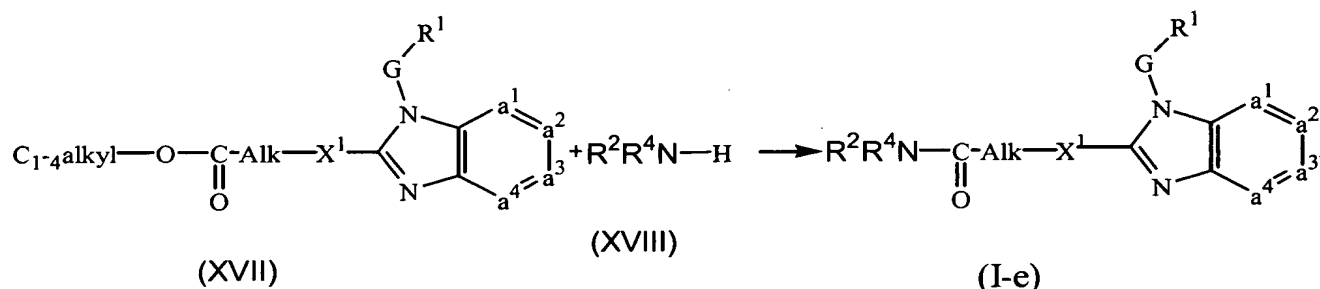
n) deprotecting an intermediate of formula (XVI), (XVI-a) or (XVI-b)



with  $G$ , and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H-Q_1$  being defined as  $Q$  according to claim 1 provided that  $R^2$  or at least one  $R^6$  substituent is

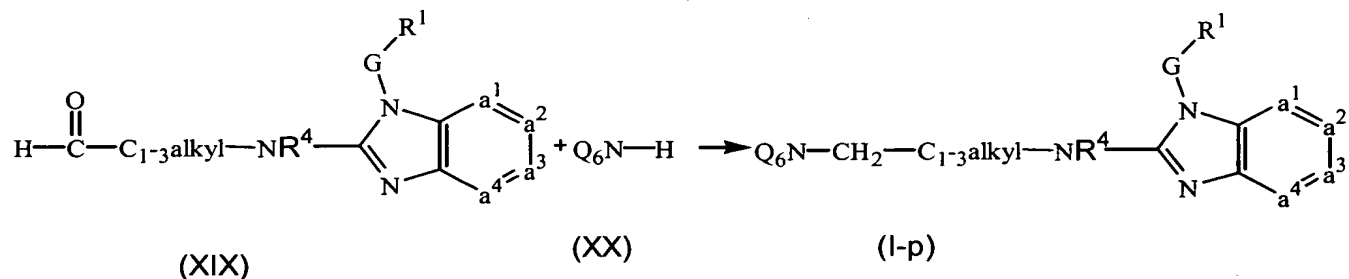
hydrogen, and  $R^{1a}-(A-O-H)_w$ ,  $R^{1a'}-(A-O-H)_2$  and  $R^{1a''}-(A-O-H)_3$  being defined as  $R^1$  according to claim 1 provided that  $R^1$  is substituted with hydroxy, hydroxy $C_{1-6}$ alkyl, or  $HO(-CH_2-CH_2-O)_n-$ , with  $w$  being an integer from 1 to 4 and  $P$  or  $P_1$  being a protecting group, with an acid;

- o) amination of an intermediate of formula (XVII)



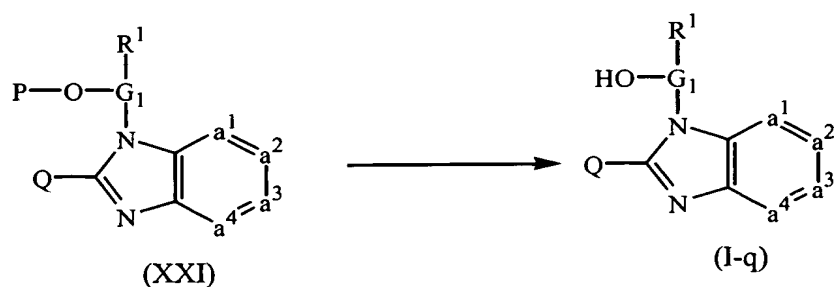
with  $R^1$ ,  $G$ ,  $-a^1=a^2-a^3=a^4-$ ,  $\text{Alk}$ ,  $\text{X}^1$ ,  $\text{R}^2$  and  $\text{R}^4$  defined as in claim 1, in the presence of an amination agent;

- p) amination of an intermediate of formula (XIX)



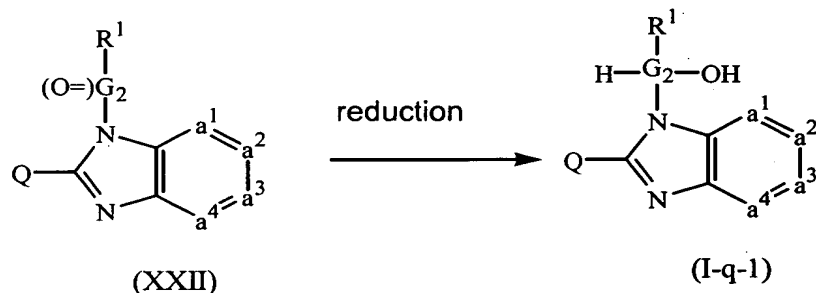
with  $R^1$ ,  $G$ , and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $\text{Q}_6\text{N}-\text{CH}_2-\text{C}_{1-3}\text{alkyl}-\text{NR}^4$  being defined as  $Q$  according to claim 1 provided that in the definition of  $Q$ ,  $\text{X}^2$  is  $\text{C}_{2-4}\text{alkyl}-\text{NR}^4$ , in the presence of an amination agent;

- q) deprotecting an intermediate of formula (XXI)



with  $R^1$ , Q, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $HO-G_1$  being defined as G according to claim 1 provided that G is substituted with hydroxy or  $HO-(CH_2CH_2O-)_n$ ; and

- r) reducing an intermediate of formula (XXII)



with  $R^1$ , Q, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H-G_2-OH$  being defined as G according to claim 1 provided that G is substituted with hydroxy and the carbon atom carrying the hydroxy substituent carries also at least one hydrogen, in the presence of a reducing agent.

Claims 16 to 17 (*cancelled*)

18. (*currently amended*) The process of claim 15, further comprising the step of converting compound of formula ~~(P)~~ (I), stereochemically isomeric forms, metal complexes, quaternary amines or *N*-oxide forms thereof, into a therapeutically active non-toxic acid addition salt by treatment with an acid.

19. (*currently amended*) The process of claim 15, further comprising the step of converting compound of formula ~~(P)~~ (I), stereochemically isomeric forms, metal complexes, quaternary amines or *N*-oxide forms thereof, into a therapeutically active non-toxic base addition salt by treatment with alkali.

20. *(currently amended)* The process of claim 15, further comprising the step of converting the acid addition salt form of compound of formula ~~(I<sup>a</sup>)~~ (I), or stereochemically isomeric forms, thereof, into the free base by treatment with alkali.
21. *(currently amended)* The process of claim 15, further comprising the step of converting the base addition salt form of compound of formula ~~(I<sup>a</sup>)~~ (I), or stereochemically isomeric forms, thereof, into the free acid by treatment with acid.
22. *(currently amended)* The process of claim 15, further comprising the step of converting said compound of formula ~~(I<sup>a</sup>)~~ (I), or stereochemically isomeric form, into a different form of compound of formula ~~(I<sup>a</sup>)~~ (I), stereochemically isomeric form, metal complex, quaternary amine or *N*-oxide form thereof.
23. *(previously presented)* A compound according to claim 1, wherein said compound is *N*-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-3-[(2-methoxyethoxy)(6-methyl-2-pyridinyl)methyl]-7-methyl-3*H*-imidazo[4,5-*b*]pyridin-2-amine.
24. *(previously presented)* A compound according to claim 1, wherein said compound is 1-phenyl-2-[2-(piperidin-4-ylamino)-imidazo[4,5-*b*]pyridin-3-yl]-ethanol.
25. *(previously presented)* A compound according to claim 1, wherein said compound is 1-phenyl-2-(2-piperidin-4-ylmethyl-imidazo[4,5-*b*]pyridin-3-yl)-ethanol.